

EDITOR'S NOTES

by Buzz Rudow

Am I behind? Boy, am I ever. There's no single reason. No catastrophe in regards to self, family, job, or computing equipment. Lots of little excuses; Christmas and New Year's happenings, including some vacation; contract negotiations, and a fair amount of travel at my job. But these sorts of things have been going on for the six years I've been publishing the newsletter. So why am I late in producing the monthly edition now?

As near as I can understand my feelings, it's some combination of burn-out, lack of direction, and isolation. Everything we've talked about doing takes quite a bit of work. I'm not sure which area to attack, or even sure it's worth the effort to attack any area.

Never-the-less, one of the areas that members thought deserving of attention is the library. This issue of the newsletter has quite a bit of data - new programs, and a new RCPM source. Next month I'll give some descriptions of the new program areas.

You'll notice the arrangement of data in the library listing is different. As was pointed out in the analysis of the survey, a lot of material exists, but its whereabouts are unknown. While I haven't figured out *how* to track, arrange, present, or make the data available, the fields were created with a data base in mind.

Remember that you may need the Library Utility program, LU310, to extract files from the 'LBR' members, and you may need the Unsqueeze program, USQ, to decompress any files that have a 'Q' as the middle letter of the suffix. Both programs are on MUG CP/M Library disk 1912.

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CP/M LIBRARY UPDATE

Library Disk 1021, Revision 00 MEX COMMUNICATIONS PROGRAMS

The following programs were submitted by the Muddy Water User Group. The MEX-VG4 should work on some Vector port at some baud. The MXH-VG4.ASM, I assume, has instructions on how to modify for your particular needs.

```
CPMLIB .021 R=00 S=000 C=0000 D:1021 A:xxxx K:x 00001
MEX-DOCS.LBR R=00 S=098 C=BE6C D:1021 A:xxxx K:x 00002
MEX-VG4 .COM R=00 S=026 C=E576 D:1021 A:xxxx K:x 00003
MEX114 .LBR R=00 S=124 C=66C4 D:1021 A:xxxx K:x 00004
MXH-VG4 .ASM R=00 S=034 C=4A48 D:1021 A:xxxx K:x 00005
PIP .COM R=00 S=008 C=B75C D:1021 A:xxxx K:x 00006
STAT .COM R=00 S=006 C=4CED D:1021 A:xxxx K:x 00007
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Library Disk 1022, Revision 00 STOIC

```
-CPMLIB .022 R=00 S=000 C=0000 D:1022 A:xxxx K:x 00008
ASSEMBL .DOC R=00 S=014 C=A40A D:1022 A:xxxx K:x 00000
DICT .DOC R=00 S=008 C=038A D:1022 A:xxxx K:x 00000
EDIT .DOC R=00 S=008 C=F754 D:1022 A:xxxx K:x 00000
FILES .DOC R=00 S=010 C=ED2C D:1022 A:xxxx K:x 00000
FLOATPNT.DOC R=00 S=006 C=EDB6 D:1022 A:xxxx K:x 00000
INTRRPT.DOC R=00 S=002 C=0B1A D:1022 A:xxxx K:x 00000
KERNEL .ASM R=00 S=036 C=4E3F D:1022 A:xxxx K:x 00000
    Kernel source.
KERNEL .DOC R=00 S=024 C=8445 D:1022 A:xxxx K:x 00000
KERNEL1 .ASM R=00 S=006 C=6CB5 D:1022 A:xxxx K:x 00000
LOAD .DOC R=00 S=006 C=65AB D:1022 A:xxxx K:x 00000
STOIC .COM R=00 S=014 C=67E3 D:1022 A:xxxx K:x 00000
    STOICBAS+KERNEL+CPMWORDS
STOIC0 .DOC R=00 S=026 C=60F3 D:1022 A:xxxx K:x 00000
STOIC1 .DOC R=00 S=022 C=9B1A D:1022 A:xxxx K:x 00000
STOICCPM.DOC R=00 S=004 C=CCA4 D:1022 A:xxxx K:x 00000
STOICBAS.STC R=00 S=024 C=FD8C D:1022 A:xxxx K:x 00000
    Basic definitions.
STOICD/A.STC R=00 S=004 C=6230 D:1022 A:xxxx K:x 00000
    D/A Package.
STOICEDT.STC R=00 S=010 C=4710 D:1022 A:xxxx K:x 00000
    Editor
STOICFFT.STC R=00 S=004 C=240E D:1022 A:xxxx K:x 00000
    Fast Fourier Transform.
STOICFLE.STC R=00 S=010 C=D4CB D:1022 A:xxxx K:x 00000
    File System.
STOICFLT.STC R=00 S=012 C=E8FD D:1022 A:xxxx K:x 00000
    Floating point package.
STOICINT.STC R=00 S=006 C=4B54 D:1022 A:xxxx K:x 00000
    4 byte integer addition and subtraction.
STOICITP.STC R=00 S=004 C=33A3 D:1022 A:xxxx K:x 00000
    Interrupt package.
STOICMIS.STC R=00 S=004 C=1F16 D:1022 A:xxxx K:x 00000
    Miscellaneous words.
STOIC SIN.STC R=00 S=002 C=E1C8 D:1022 A:xxxx K:x 00000
    Integer SIN and COS.
STOICSR.TC R=00 S=002 C=FDFA D:1022 A:xxxx K:x 00000
    Sort Routine.
CATALOG .23 R=00 S=004 C=A073 D:1022 A:xxxx K:x 00000
VOLUME23.DOC R=00 S=002 C=364F D:1022 A:xxxx K:x 00000
PIP .COM R=00 S=008 C=B75C D:1022 A:xxxx K:x 00000
STAT .COM R=00 S=004 C=9B4D D:1022 A:xxxx K:x 00000
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Library Disk 1918, Revision 00 MISCELLANEOUS

The following 12 files are the CP/M-3 on Micropolis MOD-II implementation programs. See newsletter #73.

```
-CPMLIB .918 R=00 S=000 C=0000 D:1918 A:xxxx K:x 00000
CBIOS .ASM R=00 S=002 C=D714 D:1918 A:xxxx K:x 00000
COLDBOOT.ASM R=00 S=004 C=EDC5 D:1918 A:xxxx K:x 00000
COPY3 .ASM R=00 S=008 C=4301 D:1918 A:xxxx K:x 00000
COPYSYS .ASM R=00 S=016 C=4C77 D:1918 A:xxxx K:x 00000
CPM3 .DOC R=00 S=020 C=8464 D:1918 A:xxxx K:x 00000
DBIOS .ASM R=00 S=012 C=812D D:1918 A:xxxx K:x 00000
DDE .DOC R=00 S=014 C=8F2B D:1918 A:xxxx K:x 00000
DVRTBL .ASM R=00 S=002 C=99E9 D:1918 A:xxxx K:x 00000
LDRBIOS .ASM R=00 S=012 C=D7E0 D:1918 A:xxxx K:x 00000
```

MICROPOLIS/VG USERS GROUP Newsletter #77

December 1986

MDOSDVR .LIB R=00 S=002 C=6F51 D:1918 A:xxxx K:x 00000
MELOS .LIB R=00 S=002 C=C3D4 D:1918 A:xxxx K:x 00000
MOVE .ASM R=00 S=002 C=368B D:1918 A:xxxx K:x 00001

The following seven files are the ICEX CP/M modifications to CCP to enhance operation.

a .COM R=00 S=006 C=FC96 D:1918 A:xxxx K:x 00000
Command stream handler.
ICEX .COM R=00 S=006 C=48AE D:1918 A:xxxx K:x 00000
The complete executable program.
ICEXHELP.TXT R=00 S=016 C=4C02 D:1918 A:xxxx K:x 00000
An introduction and description of ICEX.
ICOPY .COM R=00 S=006 C=0A38 D:1918 A:xxxx K:x 00000
File copy program.
README .ICX R=00 S=002 C=8A11 D:1918 A:xxxx K:x 00000
SAVELOG .COM R=00 S=002 C=8DBC D:1918 A:xxxx K:x 00000
A utility to preserve logical names on disk.
UD .COM R=00 S=002 C=7844 D:1918 A:xxxx K:x 00000
User Directory utility.

The following 11 files are CP/M utilities.

CRCK .COM R=00 S=002 C=CB3E D:1918 A:xxxx K:x 00000
Cyclic Redundancy Check.
CRCKLIST.TXT R=00 S=002 C=9518 D:1918 A:xxxx K:x 00000
FIND! .COM R=00 S=002 C=5E9F D:1918 A:xxxx K:x 00000
Find Text Strings.
FIND .DOC R=00 S=002 C=7D22 D:1918 A:xxxx K:x 00000
PIP .COM R=00 S=008 C=875C D:1918 A:xxxx K:x 00000
SAVMEM14.ASM R=00 S=006 C=8884 D:1918 A:xxxx K:x 00000
Save Crashed Memorete Text.
SAVMEM14.COM R=00 S=002 C=8897 D:1918 A:xxxx K:x 00000
SAVSC19 .ASM R=00 S=006 C=2A96 D:1918 A:xxxx K:x 00000
Save Crashed SCOPE Text.
SAVSC19 .COM R=00 S=002 C=E5D4 D:1918 A:xxxx K:x 00000
SD .COM R=00 S=002 C=1FBC D:1918 A:xxxx K:x 00000
Sorted Directory.
STAT .COM R=00 S=006 C=4CED D:1918 A:xxxx K:x 00000

The following files are games configured for the Vector Graphic.

BLAKJACK.COM R=00 S=018 C=9ABC D:1918 A:xxxx K:x 00000
JACKPOTS.WIN R=00 S=002 C=9C5B D:1918 A:xxxx K:x 00000
VEGAS .ASM R=00 S=028 C=E283 D:1918 A:xxxx K:x 00000
VEGAS .COM R=00 S=004 C=5E19 D:1918 A:xxxx K:x 00000

The following 2 files are a full screen editor for the Vector Graphic.

VDE23 .LBR R=00 S=056 C=54 63 D:1918 A:xxxx K:x 00000
VDM-VG4 .COM R=00 S=010 C=DD ED D:1918 A:xxxx K:x 00000

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Library Disk 1919, Revision 00 MISCELLANEOUS

-CPMLIB .919 R=00 S=000 C=0000 D:1919 A:xxxx K:x 00000
CRC .COM R=00 S=004 C=B207 D:1919 A:xxxx K:x 00000
D .COM R=00 S=002 C=806D D:1919 A:xxxx K:x 00000
DUMPIX .COM R=00 S=004 C=40A4 D:1919 A:xxxx K:x 00000
EX15 .COM R=00 S=004 C=DF4C D:1919 A:xxxx K:x 00000
FILFIXR .COM R=00 S=016 C=C581 D:1919 A:xxxx K:x 00000
FILT .COM R=00 S=004 C=F56E D:1919 A:xxxx K:x 00000
FORM .COM R=00 S=004 C=A2D3 D:1919 A:xxxx K:x 00000
GO .COM R=00 S=000 C=0000 D:1919 A:xxxx K:x 00000

HELP .COM R=00 S=002 C=D6CC D:1919 A:xxxx K:x 00000
MAGE .COM R=00 S=002 C=C23F D:1919 A:xxxx K:x 00000
MLOAD .COM R=00 S=004 C=06C5 D:1919 A:xxxx K:x 00000
NDIR .COM R=00 S=004 C=11ED D:1919 A:xxxx K:x 00000
NEAT .COM R=00 S=004 C=94AF D:1919 A:xxxx K:x 00000
NEATFORM.DQC R=00 S=004 C=0DAF D:1919 A:xxxx K:x 00000
NULU .COM R=00 S=016 C=CFC4 D:1919 A:xxxx K:x 00000
NULU .WO R=00 S=038 C=6F21 D:1919 A:xxxx K:x 00000
PATCH .COM R=00 S=026 C=6CE2 D:1919 A:xxxx K:x 00000
PROBE .COM R=00 S=018 C=7A48 D:1919 A:xxxx K:x 00000
PSET .COM R=00 S=004 C=D538 D:1919 A:xxxx K:x 00000
PSET .UPD R=00 S=004 C=9325 D:1919 A:xxxx K:x 00000
ROLO .COM R=00 S=016 C=3118 D:1919 A:xxxx K:x 00000
ROLO .INF R=00 S=002 C=56AE D:1919 A:xxxx K:x 00000
SEARCH .COM R=00 S=002 C=F064 D:1919 A:xxxx K:x 00000
SHOW .COM R=00 S=002 C=F99B D:1919 A:xxxx K:x 00000
SHOW .DOC R=00 S=002 C=EF3A D:1919 A:xxxx K:x 00000
SW .COM R=00 S=012 C=E4F4 D:1919 A:xxxx K:x 00000
SYS2 .COM R=00 S=008 C=5889 D:1919 A:xxxx K:x 00000
TOWS .COM R=00 S=002 C=F556 D:1919 A:xxxx K:x 00000
TXTTOWS .DQC R=00 S=002 C=984E D:1919 A:xxxx K:x 00000
UNERA .COM R=00 S=002 C=A390 D:1919 A:xxxx K:x 00000
UNLOAD .COM R=00 S=002 C=D79D D:1919 A:xxxx K:x 00000
Creates HEX file for communications programs which transfer 7-bit ASCII only.
UNLOAD .DOC R=00 S=002 C=9CE5 D:1919 A:xxxx K:x 00000
USQ .COM R=00 S=002 C=8CD7 D:1919 A:xxxx K:x 00000
WASH .COM R=00 S=004 C=C529 D:1919 A:xxxx K:x 00000
XIZ .COM R=00 S=006 C=54DC D:1919 A:xxxx K:x 00000
XIZI .DQC R=00 S=004 C=D122 D:1919 A:xxxx K:x 00000
ZBOMR .COM R=00 S=014 C=1F31 D:1919 A:xxxx K:x 00000
A Z-80 macro assembler with syntax closely following RMAC and MAC.
ZBOMR .DOC R=00 S=026 C=9D1E D:1919 A:xxxx K:x 00000
ZDT .COM R=00 S=008 C=2151 D:1919 A:xxxx K:x 00000
PIP .COM R=00 S=008 C=875C D:1919 A:xxxx K:x 00000
STAT .COM R=00 S=006 C=4CED D:1919 A:xxxx K:x 00000

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Library Disk 1920, Revision 00 MISCELLANEOUS

-CPMLIB .920 R=00 S=000 C=0000 D:1920 A:xxxx K:x 00000
DIFCOM .COM R=00 S=016 C=5A1D D:1920 A:xxxx K:x 00000
BISHOW32.LBR R=00 S=042 C=A894 D:1920 A:xxxx K:x 00000
WSB1BLE .DQC R=00 S=028 C=C5DA D:1920 A:xxxx K:x 00000
PSET15 .AQM R=00 S=022 C=88DB D:1920 A:xxxx K:x 00000

The following 10 programs are a small Prolog system for CP/M-80 Z-80 computers.

EPRO .COM R=00 S=006 C=B474 D:1920 A:xxxx K:x 00000
EPRO .DOC R=00 S=014 C=F5CF D:1920 A:xxxx K:x 00000
SAMPLE .PRO R=00 S=002 C=C59E D:1920 A:xxxx K:x 00000
A sample database.
SCIAM .PRO R=00 S=002 C=B64F D:1920 A:xxxx K:x 00000
Logic puzzle from Scientific American.
STD .PRO R=00 S=002 C=6AA5 D:1920 A:xxxx K:x 00000
Some standard connectives.
MAZE .PRO R=00 S=004 C=9648 D:1920 A:xxxx K:x 00000
TOOLS .PRO R=00 S=006 C=F71A D:1920 A:xxxx K:x 00000
VALGOL .DOC R=00 S=006 C=ECF1 D:1920 A:xxxx K:x 00000
A compiler written in Prolog. VALGOL is a subset of ALGOL-60.
VALGOL .PRO R=00 S=010 C=50F0 D:1920 A:xxxx K:x 00000
P .VAL R=00 S=002 C=1623 D:1920 A:xxxx K:x 00000

WINNIPEG.DIR R=00 S=014 C=386A D:1920 A:xxxx K:x 00000
The Winnipeg RCPM 22 Mbyte system directory.

PIP .COM R=00 S=008 C=B75C D:1920 A:xxxx K:x 00000
STAT .COM R=00 S=006 C=4CED D:1920 A:xxxx K:x 00000

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LETTERS

A REMOTE CP/M FOR VECTOR

Gentlemen: Recently, a number of Vector Graphic computers surfaced in the hands of some of the members of our User Group, and I have been asked to try and locate a V/G User Group of some kind somewhere to bring us up to speed. By change, I have a vested interest in this quest, as I am one of the new Vector owners, so I too am very interested in making contact with others to help me get my V/G 4/10 Meg up and running. Your name came to my attention this evening while cruising through the current Computer Shopper.

Basically, we have an enthused User Group here (Muddy Water is the English translation of the Indian word Assiniboine (main river here)), with about 160 members. Most of us are linked together by our interest in and use of CP/M, although most of us are also using MSDOS computers in our business situations. A wide variety of computers are represented.

We also run a 22 meg RCPM and I am the Sysop. My Deputy Sysop is Dick LeBleu (otherwise known as *The Wizard!*), and he too is one of the new Vector owners. In the space of just a few days, he has already developed a MEX overlay, got VDE23 (memory mapped version) up and running, patched MITE, WordStar 3.3, and SuperCalc 2.2 to run memory mapped.

We are quite prepared to share whatever we are able to get up and running, from out of our library, and for starters, a disk is enclosed with MEX114, and VDE23, along with a directory of what's up in our main RCPM library. If there is anything there that looks interesting, let me know.

We have an interest in establishing contact with a V/G User Group somewhere and exchanging Newsletters and software. I would be delighted to make known to our V/G owners here whatever info you can provide me about your Group, and the services you may be able to extend. Is there by chance an RCPM around somewhere tending to have V/G specific software on it, or perhaps an RCPM somewhere that at least is frequented by V/G owners?

Terry Smythe, Sysop, Muddy Water User Group, 55 Rowand Avenue, Winnipeg, Manitoba, Canada R3J 2N6. Phone (204) 832-3982 (Voice), (204) 832-4593

(Z-node).

Terry - As far as I know, you're it for an RCPM with Vector interests. I've enclosed a copy of our CP/M library catalog. If you want any of this to put up on your system, I'll surely make it available. Many thanks for the MEX and VDE programs.

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MICROPOLIS STILL DOING WELL

from the Third Quarter 1985
Micropolis Corporation
Report to Shareholders

Sales for the third quarter were \$55.4 million, up 151% from \$22.1 million for the third quarter in 1985. For the first nine months, sales were \$161.3 million, up 175% from \$58.7 million last year. Net income for the quarter was \$4.9 million, up from \$453,000 last year, and for the first nine months was \$13.1 million, up from \$527,000. Earnings per share were \$.44 for the quarter and \$1.26 for the first nine months this year, as compared with \$.05 and \$.06, respectively, in 1985.

These results, with record sales and earnings both for the third quarter and the first nine months, came from continued strong sales of the 1320 Series 5¼-inch Winchester drives with up to 85-megabyte capacity, 28-millisecond average access time, and unsurpassed quality. The new 1350 Series and 1370 Series 170-megabyte drives are in volume production and also contributed to record sales in the third quarter.

Prospects for the 1350 and 1370 Series 170-megabyte drives are developing well. By enhancing the 1320 mechanics with thin-film disks and advanced ESDI and SCSI interface electronics, the new 170-megabyte drives offer double the capacity at two-thirds of the cost per megabyte, compared with the 85-megabyte 1320's. A number of customers have awarded us contracts for the 1350's and 1370's, others are evaluating these new drives, and we are concentrating on ramping up production.

Production of the 1320 Series drives in our Singapore factory is on plan, with the objective of assembling all 1320's in Singapore and focusing Chatsworth operations on production of the new 170-megabyte drives and on bringing the 1500 Series 380-megabyte drives to market.

During the third quarter we signed new major U.S. distributors - the Electronics Marketing Group of Wyle Laboratories and three electronic distribution units of Ducommun Incorporated (Kierulff, Ducommun Data Systems, and MTI Systems) - in order to broaden the channels of distribution for all products.

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DIRECTORY OF THE MUDDY WATER USER GROUP RCMP

Winnipeg, Canada - (204) 832-4593 - (As at 13 Oct 86)

< MWOOG > Drive A1: Files: 8/216k Free: 176k
 -HELP . 0k LEARNCPM.HQP 16k POLICY .DOC 8k SW207 .DQC 24k
 HELP .LBR 16k NULU .DQC 32k SD115 .HQP 8k VARIOUS .LBR 112k

< MWOOG > Drive A2: Files: 12/384k Free: 176k
 -MWOOG . 0k FOROLD1 .QQQ 24k NEWS0486.LQR 24k NEWS0986.LQR 40k
 BYTELIST.DIR 24k FOROLD2 .LBR 80k NEWS0586.LQR 32k NEWSLTR . 64k
 BYTELIST.TXT 32k MWOGLIST. 16k NEWS0686.LQR 24k ZEUS .LQB 24k

< MWOOG > Drive A3: Files: 18/456k Free: 176k
 -ECHELON. 0k T3-DOCS .LBR 16k Z3NEWS-5.LBR 136k ZRDOS14 .UPD 8k
 DEMO-MNU.LBR 40k Z-NEWS . 16k ZAPN#1 .LBR 16k ZRDOS140.DOC 8k
 ECHELON .INF 8k Z-SYSTEM.DQC 16k ZHELPR15.RAS 8k ZWORD .TQT 16k
 GRDEMO .LBR 40k Z-TOOLS .EI 8k ZNODES29.LQT 8k
 PRICES10.RQS 16k Z3NEWS-4.LBR 88k ZRDOS+ .EI 8k

< MWOOG > Drive B0: Files: 5/72k Free: 144k
 -U-NEED . 0k NULU151 .OQJ 16k SW207 .OQJ 16k
 DBL401 .LBR 32k SD115 .OBJ 8k

< MWOOG > Drive B1: Files: 60/1912k Free: 144k
 -UTILS . 0k EGUTIL50.LBR 136k LIBRARY .LBR 56k RESQ14 .LBR 16k
 ACOPY12 .LBR 16k EPSON .LBR 16k LIBRARYN.CMD 8k SD115 .LBR 88k
 ASM .LBR 72k EX .LBR 32k LISTT16 .LBR 24k SEARCH .LBR 32k
 AUTOMENU.LBR 48k FANFOLD5.LBR 32k MASTCAT .LBR 16k SET .LBR 8k
 BD03 .LBR 16k FASTMX80.MOD 8k MEMTST10.LBR 16k SSTAT19 .LBR 72k
 BISHOW32.LBR 40k FATCAT23.LBR 160k MFT48 .LBR 24k ST17 .LBR 16k
 BRAD .PQT 8k FBAD60 .LBR 32k NSWPTIPS.001 8k SUPERMT2.LBR 16k
 BRADCON .LBR 48k FILT7A .LBR 8k NULU151 .LBR 64k SW207 .LBR 32k
 BRADFORD.LBR 56k FIND54 .LBR 8k PPIP12 .LBR 72k SYNONYM .LBR 8k
 CAT7 .LBR 8k FINDF26 .LBR 24k PRINT24A.LBR 8k TLF .LBR 16k
 CHG11 .LBR 16k FST/USQ1.LBR 24k PRINTERS.LBR 32k TWOCOL20.LBR 24k
 CRCK4 .LBR 16k GKEY2 .LBR 8k PRN36A .LBR 72k UNARC12 .LBR 104k
 DIRSALVG.LBR 8k KEYTEST .LBR 8k PSET16A .LBR 40k UNSPOL33.LBR 32k
 DISKSET .LBR 16k LABEL .AQM 16k RECORD .LBR 8k VARIOUS .LBR 24k
 DUBLSIDE.LBR 40k LD400 .LBR 32k RECVR21 .LBR 16k WTXT .LBR 8k

< MWOOG > Drive B2: Files: 35/1384k Free: 144k
 -DBASE . 0k DBSHOP30.LBR 40k ENCODE6 .LBR 48k MAIL60L .LBR 96k
 BOOKS .LBR 72k DBSRC102.LBR 64k FANSHRNK.LBR 8k MANAGER .LBR 24k
 DB2&3MAX.IQF 24k DBTOMM .LBR 8k FASTFONE.LBR 8k NEW-DBII.LBR 56k
 DB2SHL21.LBR 72k DBTOOLS .LBR 24k FILECARD.LBR 32k PCFILE .LBR 96k
 DBANYLBL.LBR 8k DBUNIQ22.LBR 16k GENEOLGY.LBR 80k REFERENC.LBR 88k
 DBAR-12 .LBR 32k DBXL .LBR 40k GRDEBOOK.LBR 32k SERVICE .LBR 16k
 DBASETIP.LBR 16k DSCREEN .LBR 48k HANDY+ .LBR 88k STRPDB2A.LBR 8k
 DBCLINIC.LBR 24k DSHARE .LBR 24k HOMEINVT.LBR 24k VIDEO11 .LBR 32k
 DBFRED37.LBR 16k DTUNE31 .LBR 64k INV .LBR 56k

< MWOOG > Drive B3: Files: 22/1072k Free: 144k

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```
-WRDPROC.      0k KEYSTOWS.AQT  24k TTOOLS  .LBR 144k WSFAST25.LBR  24k
EXPRESS  .LBR 160k NEWRITE7.LBR  32k TUCHTYPE.LBR  88k WSMODS  .LBR  32k
FILTER   .LBR  16k OUTLN11  .LBR   8k WS-COLUM.LBR  32k WSMULCOP.LBR  16k
FINREP22.LBR  16k ROFF4    .LBR  64k WS-TIPS  .TQT  24k WSUNDERL.TQT   8k
FTNOTE14.LBR  32k SPELLERS.LBR  96k WSALTRN  .LBR  16k
INDEX85  .LBR  64k TOUR20   .LBR 144k WSBIBLE  .DQC  32k
```

< MWOOG > Drive B4: Files: 18/808k Free: 144k

```
-BUSINES.      0k DATAFLOW.LBR 200k HOMEBUYR.LBR  24k PORTFO15.LBR  48k
ACCTGDB2.LBR  96k DBTAX85  .LBR  56k MORTCAN  .OQJ  24k SUPRCKBK.LBR  64k
C-MORT  .BAS   8k FINPACK  .LBR  16k MORTCOST.LBR  24k VARIOUS  .LBR  24k
CHEKBOOK.LBR 48k GLEDGR3  .LBR  72k NDSKMSTR.LBR  40k
DATAFLO2.LBR  16k GRAFTOOL.LBR 32k PERT    .LBR  16k
```

< MWOOG > Drive B5: Files: 16/800k Free: 144k

```
-COMMUN  .      0k MEX-DOCS.LBR 104k MX+IBEX1.LBR  32k MXOKP501.AQM  48k
AREACD20.LBR  24k MEX-OVRL.LBR 320k MX+OS16  .LBR  32k READFILS.LBR   8k
MBOOT3  .AQM   8k MEX114   .LBR 128k MXM-SM15.AQM  16k SNDOUT81.LBR  16k
MEX+AUTO.LOG  8k MEX16SUM.WQ  16k MXO-APMM.AQM  24k VARIOUS  .LBR  16k
```

< MWOOG > Drive B6: Files: 16/640k Free: 144k

```
-RCPM      .      0k FATCHAT  .LBR  16k NOTE3   .LBR  16k WHATSN05.LBR  24k
ADIR      .LBR  16k KMD20    .LBR  40k SFILE25  .LBR  40k WIS103   .LBR  40k
BYE506    .LBR 120k LUX50    .LBR 168k SYSMAP+  .LBR   8k Z3NEW    .LBR  56k
CHAT40    .LBR  16k NBNOTE01.LBR   8k TYPELZ14.LBR  32k ZLUX24   .LBR  40k
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-KAYPRO. Ok -- contents deleted for MUG newsletter sizing.

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BKGMINIBX.OQJ 32k IBEXNEWS.LBR  48k SPZ33IBX.OBJ   8k WS-ZCPR  .LBR  16k
DZ2-IBEX.OQJ  40k IBEXSCRN.LBR   8k TIMEX    .LBR  16k WSIBXPAT.ASM   8k
GR-IBEX  .LBR  16k IBXINSTL.LBR 232k TOURIBEX.OQJ  24k
GRIBEX   .LBR  24k OSB-IBEX.LBR  24k VDO-IBEX.LBR  56k
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---      .049  0k CRUNCH20.LBR  52k PATCHER  .LBR  12k VDE23IBX.VDM   4k
-NEWSTUF.      0k DLAB      .ARC  20k PIPIO    .DQC   8k VDE23SP  .LBR  40k
-SEEALSO.DO    0k FINDF26A.LBR  20k READONLY.1Q6 16k VDM23IBX.OBJ  12k
AC44      .OBJ   8k FRONT50  .LBR  52k READONLY.9Q6 20k VF42B    .LBR  36k
AVATEX12.TXT   4k GENSTAT  .LBR  68k SHELMUSI.NGS 12k VM22B    .LBR  28k
BRAD-DOC.LBR  12k LIST60H  .ARC  20k TCVIEW   .LBR   8k WSOVR12  .AQM   8k
CCT2      .LBR  12k LX12    .LBR  16k TTYPEIBX.LBR  88k ZSTD     .DQC   8k
CPM22APP.LBR  36k MEX-OS   .CQM  24k TYPEQZ12.LBR  36k
CR20-MSG.LBR  12k MEX-OS  .OBJ  24k UN       .OBJ   8k
CRUNCH20.BAD   4k NORTHSTR.BQS   8k VDE23    .LBR  56k
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-NEWSTUF.      0k ETHICS  .LBR  24k PALLET  .LBR  12k WSOVR11  .AQM   4k
-SEEALSO.CO    0k FIX165A .MEX   4k PATCH&GO.LBR  20k Z-NEWS  .6Q1  12k
128IMP  .LBR  24k FUNSQ20Z.OBJ  4k PINS     .DOC   4k ZAP35    .LBR  72k
ANIMATE  .LBR   8k I2OS-4  .AQM  24k RCPM0986.LZT  52k ZAP35IBX.OQJ  12k
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ARCHIVE .ARC 24k INDOTCOM.ZQX 4k READONLY.8Q6 20k ZAS-SLR2.DQC 8k
AUTOZINS.CCP 4k MATH .LBR 20k STPD .C 4k ZAS-STD .DQC 4k
BAS-ENG .LBR 120k MBASUTIL.LBR 36k TROJANS .TXT 8k ZLBR10 .LBR 16k
C128-MEX.FIX 4k MEX-APMM.CQM 20k UNBUG .DOC 4k ZMACLINK.LBR 24k
C128STUF.LBR 188k MSDIR .BAS 8k VMENU21 .LBR 96k ZNODES37.LZT 4k
CPMFUTR1.LBR 20k MXH-ZB10.LBR 12k WHATSNEW.EI 8k

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-REQUEST. 0k

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ALMNAC20.LBR 40k DISKS .LBR 24k HDISK002.DQT 16k SB180FMT.MSG 8k
CPM/EDUC.LBR 56k EMULATOR.LBR 24k P2DOS .LBR 80k SQINFO .LBR 8k
CREDITS . 8k EPEX11 .LBR 96k READONLY.7Q6 24k

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-MATH . 0k MATHPAK .LBR 48k PASMATH .LBR 16k SUMSTAT .LBR 16k
DESCALC .LBR 24k MATRIX .LBR 32k SNGLCHN .LBR 24k VARIOUS .LBR 24k
MAPSTATC.LBR 56k OXSTAT .LBR 56k STATPASC.LBR 16k

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-SPRDSHT. 0k FXSETSC2.LBR 32k SIDEWAYS.LBR 32k
CALENDAR.LBR 16k SC-FILES.LBR 16k

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-GRAPH . 0k FONTSY .LBR 112k GRAF .LBR 80k SKETCH .LBR 24k
BANNER .OBJ 8k FX80-PIX.LBR 56k GRAPHICS.CQL 8k

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-BASIC . 0k B-COMPIL.LBR 88k UN .LBR 8k VARIOUS .LBR 72k

< MWOOG > Drive E5: Files: 19/376k Free: 0k
-OSBORNE. 0k - Contents deleted for MUG newsletter sizing.

< MWOOG > Drive E6: Files: 7/112k Free: 0k
--EXECUT.IVE 0k EXWINDOW.LBR 8k SYS-EXEC.LBR 16k VDO-EXEC.LBR 56k
EXRDTRAK.LBR 8k OXTOOLS .LBR 16k ULTIMATE.LBR 8k

< MWOOG > Drive E7: Files: 11/408k Free: 0k
-GAMES . 0k BLAKJACK.LBR 16k LADDER .LBR 40k VARIOUS .LBR 88k
ADVENTUR.LBR 48k BUILDADV.LBR 48k PACMAN .LBR 32k ZCHESS .LBR 16k
BACKGAMN.OQJ 32k GOLF-HCP.BQS 8k STARTREK.LBR 80k

< MWOOG > Drive F0: Files: 12/1000k Free: 8k
-CORE .Z3 0k Z3-HELP .LBR 168k Z3-UTILS.LBR 336k ZCMD26 .LBR 64k
Z3-AIDS .LBR 80k Z3-MISC .LBR 16k Z3INSTAL.LBR 136k ZCPR21 .AQM 16k
Z3-DOCS .LBR 48k Z3-RELS .LBR 48k Z3USER .LBR 40k ZCPR3 .AQM 48k

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-LIBS .Z3 0k SYSLIB36.RQL 24k VLIB11 .REL 8k ZLB13HLP.LBR 64k
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SLB36HLP.LBR 136k VLB11ACC.LBR 8k Z3LIB13 .REL 16k
SLB36SRC.LBR 272k VLB11SRC.LBR 16k Z3LIBD .LBR 32k

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STEST .LBR 72k VLIB .HQP 8k ZLB13ACC.LBR 16k

< MWOOG > Drive F2: Files: 7/920k Free: 8k

-SOURCE.Z3 0k Z3MAC-1.LBR 96k Z3MAC-3.LBR 120k Z3MAC-5.LBR 144k
Z3-SOURC.LBR 232k Z3MAC-2.LBR 168k Z3MAC-4.LBR 160k

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-PACKAGE.Z3 0k K83ZCPR3.LBR 48k MOR484Z3.LBR 16k Z3NSADV.LBR 64k
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< MWOOG > Drive F4: Files: 33/752k Free: 8k

-PENDING.Z3 0k HSH15.LBR 32k SLTRAP.LBR 32k Z-RIP.LBR 8k
AC39.OBJ 8k LDR15.LBR 16k SLTRAP15.ZQ0 16k Z3INS13.LBR 16k
ACREATE3.LBR 24k MENU40.LBR 40k SYSFCP15.LBR 24k Z3KEY13A.LBR 48k
ARUNZ09.LBR 16k NTYPE13.LBR 8k SYSRCP14.LBR 40k Z3KEYM80.LBR 16k
CMD10.OBJ 8k PMOVE12.LBR 24k TCAP+.Z80 8k Z3LOC11.LBR 8k
DEMO.LBR 128k RCPTRAPS.LBR 16k UNERAS12.LBR 16k ZEX31A.OBJ 8k
DIR13.OBJ 8k SFA25.OBJ 8k VCED16.LBR 8k
DPGFILE.LBR 32k SHSET10.OBJ 8k VERROR17.LBR 24k
DU312.CQM 16k SHUTILS.LBR 40k WORK-VMN.LBR 48k

< MWOOG > Drive F5: Files: 16/784k Free: 8k

-LANG. 0k C-80.LBR 24k ILISP.LBR 144k SCI-12.LBR 48k
AAPL.LBR 32k CB.LBR 32k LISP.LBR 56k TINYBAS.LBR 16k
APL.LBR 72k CSHELL1.LBR 16k PLATO.LBR 24k ZBASIC.DQC 8k
APL-FONT.LBR 16k FORTH-83.LBR 192k RATFOR.LBR 56k ZBASIC.LBR 48k

< MWOOG > Drive F6: Files: 35/1448k Free: 8k

-TOOLS. 0k DZ-FEB86.LBR 104k PDLN10.LBR 32k XMAC.AQM 8k
COMPAR11.LBR 8k DZ-JUN86.LBR 8k PROBE102.LBR 72k Z80DIS21.LBR 152k
DDTZ.LBR 16k FORM7.LBR 16k PROLINK.LBR 80k Z80MR.LBR 48k
DED.LBR 16k LASM3.LBR 24k RELHEX11.LBR 8k Z8E-11.LBR 104k
DISA-REL.LBR 56k LINKLIST.LBR 16k SUPZAP33.LBR 88k ZASM.LBR 40k
DLINKLOC.LBR 64k MAC-LIB.LBR 56k TABS7.LBR 8k ZASMNEW.LBR 32k
DSTAT01.LBR 24k MLOAD24.LBR 32k TIMESTMP.LBR 16k ZDASM.LBR 104k
DUU89.LBR 40k NEAT7.LBR 8k VARIOUS.LBR 24k ZDP.LBR 40k
DZ-APR86.LBR 16k PATCH18A.LBR 64k XIZI-3.LBR 24k

< MWOOG > Drive F7: Files: 20/632k Free: 8k

-PASCAL. 0k PARS.PQS 8k THESEUS.LBR 8k TURBOMAP.LBR 8k
DBUG10.LBR 40k PASCLIBS.LBR 24k TPINSTAL.MSG 8k TURBTOOL.LBR 64k
EASYBUFF.LIB 8k PLST.LBR 16k TTUTOR1.LBR 64k VARIOUS.LBR 24k
MAP17.LBR 24k PM.LBR 72k TTUTOR2.LBR 48k WINDOW.LBR 88k
MOVECMD.LBR 8k SCRGEN1.LBR 56k TURB-INC.LBR 32k ZTP-INS2.LBR 32k

< MWOOG > Drive F13: Files: 30/1288k Free: 8k

-MS/DOS. 0k CHK4BOMB.LBR 16k PALERT.ARC 24k SHOW.ARC 16k
ARC.EXE 32k COMMAND3.ARC 168k PC-OUTLN.ARC 104k SWEEP21.EXE 48k
ASMGEN.ARC 24k DOSMATC.ARC 72k PCMAG1.ARC 32k SWEEP21.LBR 72k
AUTOPRCM.ARC 48k DPROT101.LBR 8k PKXARC31.ARC 16k TSR.ARC 32k
BOMBSQAD.ARC 8k F-PAK.ARC 80k PROC23D.ARC 72k TT.ARC 8k
C-FORMAT.ARC 24k FXMASTER.OQJ 24k PROCOM23.ARC 104k V20-80.LBR 40k
CATUTIL3.ARC 48k MORTGAG3.ARC 48k SHAREPCK.ARC 16k
CHASM2.LBR 72k MTS.ARC 24k SHIFTFX2.LBR 8k

MICROPOLIS/VG USERS GROUP Newsletter #77 December 1986

NOTICE TO DEALERS

As a service to its members, the MUG newsletter will include, in fact solicits, commercial advertisements relevant to members' needs. Any dealer, vendor, or service organization wanting to advertise must provide sufficient full or double page material, or must reimburse the MUG for reproduction of a single master.

CLASSIFIED

The Classified Section of the MUG Newsletter is available to all users, free of charge. Just call or write us with a description of what hardware, software, information, etc., that you want to obtain, or dispose of.

WANTED - Hardware manual for ZCB CPU board, and BIOS source code for CP/M 2.20A (Model MZB-5025 with Micropolis drives).

Rod Clark, 9005 8th Ave. SW, Seattle WA 98106.
Phone (206) 763-8811.

FOR SALE - Vector Graphics 3005 computer with 5 Megabyte hard drive, 630K floppy. \$400, or best offer.

Gardiner Morse, 6 Washington Ave. #18, Cambridge MA 02140. Phone (617) 354-2605 (home), or (617) 890-8669 (work).

MICROPOLIS/VECTOR GRAPHIC USERS GROUP NEWSLETTER

Published monthly by DAMAN, 604 Springwood Circle, Huntsville AL 35803-1740. Subscription rates: North America; \$18/year. Elsewhere; \$25/year, airmailed.

For assistance with general information, MUG/Vector Graphic, Micropolis drives & parts, call Lynn at (205) 881-1697 during the Central Times of 9AM to 5PM. Buzz is sometimes around in the evening (Lynn will know) and from 9-12 on Saturday.

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USERS GROUP
A Division of **DAMAN**
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Huntsville AL 35803-1740
(205) 881-1697



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